

AMENDED CLAIMS

1.(Currently Amended) A liquid atomizer unit having a double nozzle system for fire extinction, comprising:

a cup (1) with a bottom (2), the cup having a peripheral face (12) at an end thereof, and an outer face which contains a convex conical face (6), said cup (1) containing a mandrel (7) connected to the cup at the bottom (2), the mandrel extending ~~which extends~~ through a the cavity of the cup, said mandrel (7) ~~comprising~~ having a centre hole (10) provided therein and extending to as well as an end (16) of the mandrel located beyond the peripheral face (12) of the cup, the mandrel end (16) having ~~comprising~~ an elevation (21) with a central hole (17) connecting the centre hole (10) of the mandrel to the atmosphere, a baffle face (18) being arranged ~~on the central shaft of the centre hole~~ in front of ~~and in parallel with~~ the centre hole (10), said baffle (18) being ~~disposed on a leg (19) and constituting~~, in combination with the centrally located hole (17), forming a first nozzle of the liquid atomizer for liquid atomization, ~~characterized in that the mandrel (7) is penetrated by~~ having one or more side slots or holes (11) located, ~~all of which are positioned within the cavity of the cup, and whose~~ having a total area which is larger than ~~the a~~ cross-sectional area of the centre hole (10) of the mandrel, ~~and that, outside the periphery (12) of the cup and above the first nozzle,~~ the mandrel end (16) having (7) ~~comprises~~ a face (13) disposed opposite to the peripheral face (12) of the cup and above the first nozzle to form ~~which forms~~ a fully circular gap (14) between the peripheral face (12) of the cup and the mandrel face (13), said gap (14) forming a ~~constituting the~~ second nozzle of the liquid atomizer for spreading atomized liquid from the ~~first~~ second nozzle in an entire ~~360°~~ 360° circle.

2.(Currently Amended) A liquid atomizer unit according to claim 1, characterized in that the face (18) ~~(13)~~ is present on a leg (19) which is secured to the mandrel (7) at a point (20), said point (20) being spaced a

distance from the face (18) ~~(13)~~ of at least 2 x the diameter of the face (18) ~~(13)~~.

3.(Currently Amended) A liquid atomizer unit according to claim 1 or 2, characterized in that the face (18) ~~(13)~~ has a diameter which is 70% to 130% of the diameter of the outer periphery of the cup (1).

4.(Previously Presented) A liquid atomizer unit according to claim 1, characterized in that the slots or holes (11) of the mandrel extend over a length of more than 2 x the diameter of the bore of the cup.

5.(Currently Amended) A liquid atomizer unit according to claim 1, characterized in that a ratio of ~~the longitudinally~~ a longitudinal sectional area to a ~~the~~ cross-sectional area of the cavity of the cup is 0.10 - 0.20.

6.(Currently Amended) A liquid atomizer unit according to claim 1, characterized in that the cup (1) ~~comprises an outer face which contains a~~ convex conical face (6) has ~~with~~ an angle of between 20° and 130°.

7.(Currently Amended) A liquid atomizer unit according to claim 1, characterized in that the bottom (2) is penetrated by holes (3) or one or more grooves (4, 5), ~~or that, as an alternative to this, holes or slots (8) are provided on the side face of the cup over the conical member (9).~~

8.(Currently Amended) A liquid atomizer unit according to claim 1, characterized in that the unit is movably mounted in a nozzle housing (23) having a water connection gate (24), said nozzle housing (23) having ~~comprising~~ a concave conical face (25) complimentary to ~~for cooperation with~~ the conical face (6) of the liquid atomizer for sealingly receiving the liquid atomizer unit thereon ~~thus comprising a smaller diameter than a~~ the largest diameter ~~over the conical face (6) of the liquid atomizer and a conical angle greater than or equal to the conical angle of the liquid atomizer.~~

9.(Withdrawn) A liquid atomizer unit according to claim 8, characterized in that the unit is secured in the nozzle housing (23) by legs (27) which press against the end face (16) of the mandrel and are fixed by the elevation (21) at the outlet of the nozzle bore (17), said legs (27) being held against the conical face (25) in the nozzle housing (23) by a thermal release element (26) arranged at an angle of 0° - 90° relative to the longitudinal shaft of the liquid atomizer unit.

10.(Withdrawn-Previously Presented) A liquid atomizer unit according to claim 8, characterized in that the unit is fixed in the nozzle housing (30) by a compression spring which rests on a shoulder face (31) on the liquid atomizer unit and on the inner side (32) of the nozzle housing (30).

11.(New) A liquid atomizer unit according to claim 1, characterized in that holes or slots (8) are provided on a side face of the cup adjacent the bottom (2) of the cup.

12. (New) A liquid atomizer unit according to claim 8 wherein the concave conical face (25) has a smaller diameter than a largest diameter of the conical face (6) and a conical angle greater than or equal to a conical angle of the conical face (6).